# 2007 – 08 PETITION/PROGRAM SHEET
## Degree: Associate of Applied Science
## Major: Manufacturing Technology
## Emphasis: Welding Technology
## www.mesastate.edu/wccc/manf.htm

**About This Emphasis . . .**

This program offers classroom instruction and related lab work with hands-on activities in the use of tools and the operation of manufacturing equipment. Students study welding and cutting, fluid power and pneumatics, robotics, properties of materials and basic electrical theory. This course of study is designed to meet competency-based standards set by the industry. Attitude and quality of workmanship is stressed.

POLICIES:

1. It is your responsibility to determine whether you have met the requirements for your degree. Please see the MSC Catalog for a complete list of graduation requirements.
2. You must turn in your "Intent to Graduate" form to the Registrar's Office **by September 15 if you plan to graduate the following May, and by February 15 if you plan to graduate the following December**.
3. This program sheet must be submitted with your graduation planning sheet to your advisor during the **semester prior to the semester of graduation, no later than October 1 for spring graduates, no later than March 1 for fall graduates.**
4. Your advisor will sign and forward the Program Sheet and Graduation Planning Sheet to the WCCC Director of Instruction for signature.
5. Finally, the WCCC Director or the department administrative assistant will take the signed forms to the Registrar's Office. (Students cannot handle the forms once the advisor signs.)
6. If your petition for graduation is denied, it will be your responsibility to reapply for graduation in a subsequent semester. Your "Intent to Graduate" does not automatically move to a later graduation date.
7. NOTE: The semester before graduation, you may be required to take a Major Field Achievement Test (exit exam).

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**NAME:** _____ **STUDENT ID #** _____

**LOCAL ADDRESS AND PHONE NUMBER:** _____

_____ **(  )** _____

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I, (Signature)_____, hereby certify that I have completed (or will complete) all the courses listed on the Program Sheet. I further certify that the grade listed for those courses is the final course grade received except for the courses in which I am currently enrolled and the courses which I complete next semester. I have indicated the semester in which I will complete these courses.

_____ _____ 20_____
Signature of Advisor Date

_____ _____ 20_____
Signature of WCCC Director Date

_____ _____ 20_____
Signature of Registrar Date

**Students should work closely with a faculty advisor when selecting and scheduling courses prior to registration.**

Degree Requirements:

- 2.00 cumulative GPA or higher in all MSC coursework and a "C" or better must be achieved in each course which comprises the area of emphasis or specialization for WELD.
- Program sheets are for advising purposes only. Because a program may have requirements specific to the degree, check with your advisor for additional guidelines, including prerequisites, grade point averages, grades, exit examinations, and other expectations. It is the student's responsibility to be aware of, and follow, all guidelines for the degree being pursued. Any exceptions or substitutions must be approved by the faculty advisor and/or Department Head.
- See the "Undergraduate Graduation Requirements" in the Mesa State College catalog for additional graduation information.

**GENERAL EDUCATION REQUIREMENTS** (18 Semester Hours)
See the current Mesa State College catalog for a list of courses that fulfill the requirements below. If a course is on the general education list of options and a requirement for your major, you must use it to fulfill the major requirement and make a different selection within the general education requirement.

| Course No | Title | Sem.hrs | Grade | Term/Trns |
|---|---|---|---|---|
| **English** (6 semester hours) | | | | |
| ENGL 111 | English Composition | 3 | | |
| ENGL 112 | English Composition | 3 | | |
| **Math: MATH 113 or UTEC 107** (4 semester hours) | | | | |
| | | 4 | | |
| **Social and Behavioral Science, Humanities or Selected Speech Courses** (6 semester hours) | | | | |
| | | 3 | | |
| | | 3 | | |
| **Kinesiology** (2 semester hours) | | | | |
| KINE 100 | Health and Wellness | 1 | | |
| KINA 1 | | 1 | | |

| Course No | Title | Sem.hrs | Grade | Term/Trns |
|---|---|---|---|---|

**ASSOCIATE OF APPLIED SCIENCE: MANUFACTURING TECHNOLOGY – WELDING TECHNOLOGY COURSE REQUIREMENTS**
(50 semester hours)

| **Core Classes** | | | | |
|---|---|---|---|---|
| CADT 101 | Introduction to Computers | 1 | | |
| CADT 106 | Computer Aided Design | 3 | | |
| MAMT 101 | Introduction to Manufacturing | 2 | | |
| MAMT 105 | Print Reading/Sketching | 2 | | |
| MAMT 106 | Geometric Tolerancing | 1 | | |
| MAMT 115 | Introduction to Machine Shop | 3 | | |
| MAMT 150 | Intro to Numerical Control | 1 | | |
| MAMT 160 | Properties of Materials | 2 | | |
| MAMT 207 | Intro to Statistical Process Control | 2 | | |
| UTEC 150 | Fluid Power | 3 | | |
| UTEC 220 | Industry Employment Practices | 3 | | |
| **OR** | | | | |
| UTEC 120 | Industrial Safety Practices | 3 | | |
| WELD 110 | SMAW | 3 | | |
| WELD 115 | Welding and Structural Theory | 2 | | |
| WELD 117 | OFW and C | 3 | | |
| WELD 133 | Fabrication Layout | 2 | | |
| WELD 170 | Practical Applications | 3 | | |
| WELD 211 | GMAW/FCAW | 4 | | |
| WELD 230 | GTAW | 4 | | |

**Electives: (**6 semester hours) (Any college level undergraduate courses except KINA)

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|---|---|---|---|---|---|
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Students in Welding may be required to purchase approximately $200.00 in tools and personal safety welding equipment. This does not include required textbooks. These costs may vary with student need and brand or quality of tools or equipment purchased. All safety glasses must meet the minimum industry safety standard of Z-87 with side shields.

## SUGGESTED COURSE SEQUENCING FOR THE ASSOCIATE OF APPLIED SCIENCE WITH A MAJOR IN MANUFACTURING TECHNOLOGY – EMPHASIS IN WELDING TECHNOLOGY

This is a recommended sequence of course work. Certain courses may have prerequisites or are only offered during the Fall or Spring semesters. It is the student's responsibility to meet with their advisor and check the 2 year course matrix on the Mesa State website for course availability.

| First Semester | | Hours |
|---|---|---|
| MAMT 101 | Introduction to Manufacturing | 2 |
| UTEC 107 | Math for Technology **or** | |
| MATH 113 | College Algebra | 4 |
| WELD 117 | OFW and C | 3 |
| CADT 101 | Introduction to Computers | 1 |
| MAMT 105 | Print Reading/Sketching | 2 |
| MAMT 106 | Geometric Tolerancing | 1 |
| WELD 110 | SMAW | 3 |
| | | 16 |

| Second Semester | | Hours |
|---|---|---|
| MAMT 160 | Properties of Materials | 2 |
| WELD 115 | Welding & Structural Theory | 2 |
| WELD 133 | Fabrication Layout | 2 |
| WELD 211 | GMAW/FCAW | 4 |
| UTEC 150 | Fluid Power | 3 |
| Elective | | 3 |
| | | 16 |

| Third Semester | | Hours |
|---|---|---|
| MAMT 115 | Introduction to Machine Shop | 3 |
| MAMT 150 | Introduction to Numerical Control | 1 |
| CADT 106 | Computer Aided Design | 3 |
| KINA | Activity | 1 |
| ENGL 111 | English Composition | 3 |
| General Education | Soc/Beh Sci., Humanities, Speech | 3 |
| KINE/ 100 | Health and Wellness | 1 |
| Electives | | 3 |
| | | 18 |

| Fourth Semester | | Hours |
|---|---|---|
| WELD 230 | GTAW | 4 |
| MAMT 207 | Intro to Statistical Process Control | 2 |
| UTEC 220 | Industry Employment Practices **or** | |
| UTEC 120 | Industrial Safety Practices | 3 |
| WELD 170 | Practical Applications | 3 |
| ENGL 112 | English Composition | 3 |
| General Education | Soc/Beh Sci., Humanities, Speech | 3 |
| | | 18 |